

SEQUENCE LISTING

(1) GENERAL INFORMATION

5 (i) APPLICANT: Lincoln, Steve
Klinger, Tod M.
Au-Young, Janice
Tang, Y. Tom
Goold, Richard
Akerblom, Ingrid E.
Seilhamer, Jeffrey J.
Hawkins, Phillip R.
Murry, Lynn E.
Delegeane, Angelo M.
Levine, Wendy B.
Hillman, Jennifer L.
Goli, Surya K.
Altus, Christina M.
Bandman, Olga
LaBrie, Samuel T.
Shah, Purvi

10 25 (ii) TITLE OF THE INVENTION: Database for Storage and Analysis of Full Length Sequences

15 (iii) NUMBER OF SEQUENCES: 10

20 30 (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Bozicevic & Reed, L.L.P.
(B) STREET: 285 Hamilton Ave.
(C) CITY: Palo Alto
(D) STATE: CA
(E) COUNTRY: U.S.
35 (F) ZIP: 94301

40 45 (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ Version 1.5

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: To Be Assigned
45 (B) FILING DATE: Filed Herewith

50 (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/282,955
55 (B) FILING DATE: July 29, 1995

(A) APPLICATION NUMBER: 08/187,530
(B) FILING DATE: January 27, 1994

(A) APPLICATION NUMBER: 08/179,873
55 (B) FILING DATE: January 11, 1994

(A) APPLICATION NUMBER: 08/100,523

(B) FILING DATE: August 3, 1993

(A) APPLICATION NUMBER: 07/977,780
(B) FILING DATE: November 19, 1992

(A) APPLICATION NUMBER: 07/916,491
(B) FILING DATE: July 17, 1992

(A) APPLICATION NUMBER: 08/289,822
(B) FILING DATE: August 12, 1994

(A) APPLICATION NUMBER: 08/581,240
(B) FILING DATE: December 29, 1995

(A) APPLICATION NUMBER: 08/657,697
(B) FILING DATE: May 29, 1996

(A) APPLICATION NUMBER: 08/747,547
(B) FILING DATE: November 12, 1996

(A) APPLICATION NUMBER: 08/712,710
(B) FILING DATE: September 12, 1996

(A) APPLICATION NUMBER: 08/744,026
(B) FILING DATE: November 5, 1996

(A) APPLICATION NUMBER: 08/786,999
(B) FILING DATE: January 23, 1997

(A) APPLICATION NUMBER: 08/822,262
(B) FILING DATE: March 20, 1997

(A) APPLICATION NUMBER: 08/000,000 (as yet unassigned)
(B) FILING DATE: October 16, 1997

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Francis, Carol L.
(B) REGISTRATION NUMBER: 36,513
(C) REFERENCE/DOCKET NUMBER: 6514/069001

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650-327-3400
(B) TELEFAX: 650-327-3231

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 373 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(A) LIBRARY: Pancreatic Cancer

(B) CLONE: PANC1A

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

5	GTACGGAGGT GAGGTTTGTN ACCCGCATTG TAAGAGGTGG GCTTTAGTC CCTCCAGACC	60
	TCGGCTTTAG TGCTGTCTCC GCTTTTYTTT CACCTTCACA GAGGTTCGTG TCTCCTAAA	120
	AGAAGGTTTT ATTGGGAGGT AAAGGTCAAT GCGTAGGGGT AGAGTAAGAT GTCTTATGGT	180
	GAAATTRAAG GTAAATTCTT GGGACCTAGA GAAGAAGTAA CGAGTGAGCC ACGCTGTAAA	240
10	AAATTGAAGT CAACCACAGA GTCGTATGTT TTTCACAATC ATAGTAATGC TGATTTTCAC	300
	AGNATCCAAG AGAAAAGTGG AAATGATTGG GTCCCTGTGN NCATCATTTGA TGTCAGAGGA	360
	CATAGTTATT TGC	373

(2) INFORMATION FOR SEQ ID NO:2:

15	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 321 base pairs
	(B) TYPE: nucleic acid
20	(C) STRANDEDNESS: single
	(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

25	(vii) IMMEDIATE SOURCE:
	(A) LIBRARY: Pancreatic Cancer
	(B) CLONE: PANC1B

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

30	GTGAGGTTTG TTACCCNCAT TCTGAGAGGT GGGCTTTAG TCCCTCCAGA CCTCGGCTTT	60
	AGTGCTGTCT CCGMTTTCT TTCACCTTCA CAGAGATGTC TTATGGTGA ATTGAAGGTA	120
	AATTCTTGGG ACCTAGWGAA GAAGTAACGA GTGAGCCACG CTGTAAAAAA TTGAAGTCAA	180
	CCACAGAGTC GTATGTTTT CACAATCATA GTAATGCTGA TTTTCACAGW ATCCAAGAGA	240
35	AAACTGGAAA TGATTGGGT CCCTGTGACC ATCATTNATG TCAGAGGNCA TAGTTAATT	300
	GCAGGAGANC AAAATCAAA A	321

(2) INFORMATION FOR SEQ ID NO:3:

40	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 528 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: single
	(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

45	(vii) IMMEDIATE SOURCE:
	(A) LIBRARY: NEUTGMT01
	(B) CLONE: 637393

50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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ATGACAGACT GTGAATTGG ATATATTAC AGGCTGGCTC AGGACTATCT GCAGTGCCTC	60
CTACAGATAC CACAAACCTGG ATCAGGTCCA AGCAAAACGT CCAGAGTGCT ACAAAATGTT	120
55 GCGTTCTCAG TCCAAAAAGA AGTGGAAAAG AATCTGAAGT CATGCTTGGG CAATGTTAAT	180
GTTGTGTCCG TAGACACTGC CAGAACACTA TTCAACCAAG TGATGGAAA GGAGTTGAA	240
GACGACATCA TTAACGGGG AAGAATTGTA ACCATATTG CATTGAAAGG TATTCTCATC	300

AAGAAACTTC TACGACAGCA AATTGCCCG GATGTGGATA CCTATAAGGA GATTCATAT 360
 TTTGTTGCCG AGTTCATATAAT GAATAACACA GGAGAATGGA TAAGGAAAA CGGAGGCTGG 420
 GAAAATGGCT TTGTAAAGAA GTTTGAACCT AAATCTGGCT GGATGACTTT TCTAGAAGTT 480
 ACAGGAAAGA TCTGTGAAAT GCTATCTCTC CTGAAGCAAT ACTGTTGA 528

5

(2) INFORMATION FOR SEQ ID NO:4:

10 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 405 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

20 GTCCAAATCA CTCATTGTTT GTGAAAGCTG AGCTCACAGC AAAACAAGCC ACCATGAAGC 60
 TGTCGGTGTG TCTCCTGCTG GTCACGCTGG CCCTCTGCTG CTACCAGGCC AATGCCGAGT 120
 TCTGCCAGC TCTTGTTCCT GAGCTGTTAG ACTTCTTCTT CATTAGTGAA CCTCTGTTCA 180
 AGTTAACGTCT TGCCAAATTT GATGCCCTCT CGGAAGCTGT TGCAGCCAAG TTAGGAGTGA 240
 AGAGATGCAC GGATCAGATG TCCCTTCAGA AACGAAAGCCT CATTGCGGAA GTCCCTGGTGA 300
 25 AAATATTGAA GAAATGTAGT GTGTGACATG TAAAAACTTT CATCCTGGTT TCCACTGTCT 360
 TTCAATGACA CCCTGATCTT CACTGCAGAA TGTAAGGTT TCAAC 405

30 (2) INFORMATION FOR SEQ ID NO:5:

35 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 495 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

45 GATCCTGCC ACCCGCGACT GAACACCGAC AGCAGCAGCC TCACCATGAA GTTGCTGATG 60
 GTCCTCATGC TGGCGCCCT CTCCCAGCAC TGCTACGCAG GCTCTGGCTG CCCCTTATTG 120
 GAGAATGTGA TTTCCAAGAC AATCAATCCA CAAGTGTCTA AGACTGAATA CAAAGAACCT 180
 CTTCAAGAGT TCATAGACGA CAATGCCACT ACAAAATGCCA TAGATGAATT GAAGGAATGT 240
 50 TTTCTTAACC AACCGGATGA AACTCTGAGC AATGTGAGG TGTTTATGCA ATTAAATATAT 300
 GACAGCAGTC TTTGTGATTG ATTTTAACTT TCTGCAAGAC CTTGGCTCA CAGAACTGCA 360
 GGGTATGGTG AGAAACCAAC TACGGATTGC TGCAAACAC ACCTTCTCTT TCTTATGTCT 420
 TTTTACTACA AACTACAAGA CAATTGTTGA AACCTGCTAT ACATGTTTAT TTTAATAAAT 480
 TGATGGCAAA AACTG 495

(2) INFORMATION FOR SEQ ID NO:6:

55 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1143 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
 (A) LIBRARY:
 (B) CLONE: Consensus

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GGCCCCGCCG	CGCCCCGGCGC	GCCCCGCCGC	CGGGGGGATG	TCTTACAAAC	CGAACTTGGC	60
CGCGCACATG	CCCGCCGCGC	CCCTCAACGC	CGCTGGGAGT	GTCCACTCGC	CTTCCACCAG	120
CATGGCAACG	TCTTCACAGT	ACCGCCAGCT	GCTCACTGAC	TACGGGCCAC	CGTCCCTAGG	180
15 CTACACCCAG	GGAACTGGGA	ACAGCCAGGT	GCCCCAAAGC	AAATACGCGG	AGCTGCTGGC	240
CATCATTGAA	GAGCTGGGGA	AGGAGATCAG	ACCCACGTAC	GCAGGGAGCA	AGAGTGCAT	300
GGAGAGGCTG	AAGCGCGGCA	TCATTACACGC	TAGAGGACTG	GTTCGGGAGT	TCTTGGCAGA	360
AACGGAACGG	AATGCCAGAT	CCTAGCTGCC	TTGTTGGTTT	TGAAGGATT	CCATCTTTT	420
ACAAGATGAG	AAGTTACAGT	TCATCTCCCC	TGTTCAAGATG	AAACCCCTGT	TTTCAAAATG	480
20 GTTACAGTT	CGTTTTCCCT	CCCATGGTTC	ACTTGGCTCT	GAACCTACAG	TCTCAAAGAT	540
TGAGAAAAGA	TTTGCAGTT	AATTAGGATT	TGCATTTAA	GTAGTTAGGA	ACTGCCAGG	600
TTTTTTTGT	TTTTTAAGCA	TTGATTTAA	AGATGCACGG	AAAGTTATCT	TACAGCAAAC	660
TGTAGTTGC	CTCCAAGACA	CCATTGTCTC	CCTTTAATCT	TCTCTTTGT	ATACATTTGT	720
TACCCATGGT	GTTCTTGTT	CCTTTTCATA	AGCTAATACC	ACTGTAGGA	TTTTGTTTG	780
25 AACGCATATT	GACAGCACGC	TTTACTTAGT	AGCCGGTTCC	CATTGCCAT	ACAATGTAGG	840
TTCTGCTTAA	TGTAACTTCT	TTTTGCTTA	AGCATTGCA	TGACTATTAG	TGCTTCAAAG	900
TCAATTTTA	AAAATGCACA	AGTTATAAAT	ACAGAAGAAA	GAGCAACCCA	CCAAACCTAA	960
CAAGGACCCC	CGAACACTTT	CATACTAAGA	CTGTAAGTAG	ATCTCAGTTC	TGCGTTTATT	1020
GTAAGTTGAT	AAAAACATCT	GGAAGAAAAT	GACTAAAAT	GTTTGATCT	TTGTATGTAT	1080
30 TTATTACTTG	ATGTAATAAAA	GCTTATTTTC	ATTAACAATT	TGTATTAAAA	TGTGGGTTCC	1140
	TTG					1143

35 (2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 871 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

40 (vii) IMMEDIATE SOURCE:
 (A) LIBRARY:
 (B) CLONE: Consensus

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

50 ACCTGCTGGC	CCCTGGACAC	CTCTGTCACC	ATGTGGTTCC	TGGTTCTGTG	CCTCGCCCTG	60
TCCCTGGGGG	GGACTGGTGC	TGCGCCCCCG	ATTCACTCCC	GGATTGTGGG	AGGCTGGGAG	120
TGTGAGCAGC	ATTCCCAGCC	CTGGCAGGGC	GCACTGGTCA	TGGAAAACGA	ATTGTTCTGC	180
TCGGGCGTCC	TGGTGCATCC	GCAGTGGGTG	CTGTCAGCCG	CACACTGTTT	CCAGAACTCC	240
TACACCATCG	GGCTGGGCCT	GCACAGTCTT	GAGGGCGACC	AAGAGCCAGG	GAGCCAGATG	300
55 GTGGAGGCCA	GCCTCTCCGT	ACGGCACCCA	GAGTACAACA	GACCCTTGCT	CGCTAACGAC	360
CTCATGNTCA	TCAAGTTGGA	CGAATCCGTG	TCCGAGTCTG	ACAACATCCG	GAGNATCAGC	420
ATTGNTTCGC	AGTGCCTAC	CGCGGGGAAC	TTTGCCTCG	TTTCTGGCTG	GGGCTGCTG	480

5	GCGAACGGCA	GAATGCCTAC	CGTGCTGCAG	TGCGTGAACG	TGTCGGTGGT	GTCTGAGGAG	540
	GTCTGCAGTA	AGCTCTATGA	CCCGCTGTAC	CACCCCAGCA	TGTTCTGCGC	CGGCGGAGGG	600
	CAAGACCAGA	AGGACTCCTG	CAACGGTGAC	TCTGGGGGGC	CCCTGATCTG	CAACGGGTAC	660
	TTGCAGGGCC	TTGTGTCTTT	CGGAAAAGCC	CCGTGTGGCC	AAGTTGGCGT	GCCAGGTGTC	720
	TACACCAACC	TCTGCAAATT	CACTGAGTGG	ATAGAGAAAA	CCGTCCAGGC	CAGTTAACTC	780
	TGGGGACTGG	GAACCCATGA	AATTGACCCC	CAAATACATC	CTGCGGAAGG	AATTCAAGAA	840
	TATCTGTCC	CAGCCCCCTCC	TCCCTCAGGC	C			871

10 (2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1428 base pairs
- (B) TYPE: nucleic acid
- 15 (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- 20 (A) LIBRARY: Colnnot01
- (B) CLONE: 609476

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

25	GGCCGGGTTG	GGGGTGTGCG	ATTGTGTGGG	ACGGTCTGGG	GCAGCCCAGC	AGCGGCTGAC	60
	CCTCTGCCTG	CGGGGAAGGG	AGTCGCCAGG	CGGCCGTAT	GGCGGTGTCG	GAGAGCCAGC	120
	TCAAGAAAAT	GGTGTCCAAG	TACAAATACA	GAGACCTAAC	TGTACGTGAA	ACTGTCAATG	180
	TTATTACTCT	ATACAAAGAT	CTCAAACCTG	TTTTGGATTG	ATATGTTTT	AACGATGGCA	240
	GTCCAGGGA	ACTAATGAAC	CTCACTGGAA	CAATCCCTGT	GCCTTATAGA	GGTAATACAT	300
30	ACAAATATTCC	AATATGCCCTA	TGGCTACTGG	ACACATACCC	ATATAATCCC	CCTATCTGTT	360
	TTGTTAACGCC	TACTAGTTCA	ATGACTATTA	AAACAGGAAA	GCATGTTGAT	GCAAATGGGA	420
	AGATATATCT	TCCTTATCTA	CATGAATGGA	AACACCCACA	GTCAGACCTG	TTGGGGCTTA	480
	TTCAAGGTAT	GATTGTGGTA	TTTGGAGATG	AACCTCCAGT	CTTCTCTCGT	CCTATTCGG	540
	CATCCTATCC	GCCATACCCAG	GCAACGGGGC	CACCAAATAC	TTCCCTACATG	CCAGGCATGC	600
35	CAGGTGGAAT	CTCTCCATAC	CCATCCGGAT	ACCCCTCCAA	TCCCAGTGGT	TACCCAGGCT	660
	GTCCCTTACCC	ACCTGGTGGT	CCATATCCG	CCACAAACAAG	TTCTCAGTAC	CCTCTCTCAGC	720
	CTCCCTGTGAC	CACTGTTGGT	CCCAGTAGGG	ATGGCACAAT	CAGCGAGGAC	ACCATCCGAG	780
	CCTCTCTCAT	CTCTGGGGTC	AGTGCACAAAC	TGAGATGGCG	GATGAAGGGAG	GAAATGGATC	840
	GTGCCCAAGGC	AGAGCTCAAT	GCCTTGAAAC	GAACAGAAGA	AGACCTGAAA	AAGGGTCACC	900
40	AGAAAACCTGGA	AGAGATGGTT	ACCCGTTTAG	ATCAAGAAGT	AGCCGAGGTT	GATAAAAACA	960
	TAGAACTTTT	GAAAAAGAAG	GATGAAGAAC	TCAGTCTGTC	TCTGGAAAAA	ATGAAAATC	1020
	AGTCTGAAAAA	CAATGATATC	GATGAAGTAA	TCATCCCAC	AGCTCCCTTA	TACAAACAGA	1080
	TCCTGAATCT	GTATGCAGAA	AAAAACGCTA	TTGAAGACAC	TATCTTTAC	TTGGGAGAAG	1140
	CCTTGAGAAG	GGCGCTGATA	GACCTGGATG	TCTTCTGAA	GCATGTACGT	CTTCTGTCCC	1200
45	GTAACACAGT	CCAGCTGAGG	GCACTAATGC	AAAAAGCAAG	AAAGACTGCC	GGTCTCAGTG	1260
	ACCTCTACTG	ACTTCTCTGA	TACCAGCTGG	AGGTGAGCT	CTTCTTAAAG	TATTCTCTC	1320
	TTCCTTTTAT	CAGTAGGTGC	CCAGAATAAG	TTATTGCACT	TTATCATTCA	MGTGAAAAT	1380
	ATTTTGAATC	AATAATATAT	TTTCTGTTT	CTTTTGGTAA	AGATGGAT		1428

50 (2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 667 base pairs
- (B) TYPE: nucleic acid
- 55 (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(A) LIBRARY: THPINOT03
 (B) CLONE: 2446131

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

5	GGCTGAGCGG CCCCAGCC AACCCCCGAG GAGCGGCCGG CTGGCGTCCG CCGCGCCAG	60
	GAGTTGGGA TGTCCTACAA ACCCATCGCC CCTGCTCCA GCAKCACCCC TGGCTCCAGC	120
	ACCCCTGGC CGGGCACCCC GGTCCCTACA GGAAGCGTCC CGTCGCCGTC GGGCTCAGTG	180
	CCAGGAGCGG GCGCTCCTT CAGACCGCTG TTTAACGACT TTGGACGCC TTCCATGGGC	240
10	TACGTGCAGG CGATGAAGCC ACCCGGCGCC CAGGGCTCCC AGAGCACCTA CACGGACCTG	300
	CTGTCAGTCA TAGAGGAGAT GGGCAAAGAG ATCCGGCCTA CCTATGCTGG CAGCAAGAGC	360
	GCCATGGAGC GCCTGAAGAG AGGTATCATC CATGCCCGGG CCCTAGTCAG AGAGTGCCTG	420
	GCAGAGACAG AGCGGAACGC CCGCACGTA CAGGAAGCGC CTCGGCCTCA GCGTCTGGAC	480
	CTATCCGGCC ACTGCAGAGC ACCCGCTTCT CCCTGGCCTT CATCCCGAGT TGCACTAACC	540
15	ATCCTGGGCT TCCTGTCTG TGTCCCTTGG TGGGTCCCCT CCAGGAACCA AGGAGTGGCC	600
	CTCCAGGTGG CAGCACTAAG GACACCCCCC CACAACAAGA GTTAGCAGCG AGGTCCCCAT	660
	GAGTCCC	667

(2) INFORMATION FOR SEQ ID NO:10: -

20 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 397 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

30	CTGAACTCTA CCTGGTGACC AGGGACCAGG ACCTTTATAA GGTGGAAGGC TTGATGTCCT	60
	CCCCAGACTC AGCTCCTGGT GAAGCTCCA GCCATCAGCC ATGAGGGTCT TGTATCTCCT	120
	CTTCTCGTTC CTCTTCATAT TCCTGATGCC TCTTCAGGT GTTTTGTTG GTATAGGCAG	180
	TCCCGTTACC TGCCTTAAGA GTGGAGCCAT ATGTCATCCA GTCTTTGCC CTAGAAGGTA	240
	TAAACNAATT GGCACCTGTG GTCTCCCTGG AACAAAATGC TGNAAAAAGC CATGAGGAGG	300
35	CCAAGGAAGCT GCTGTGGCNG ANGCGGATTC AGAAAAGGGCT CCCTCATCAG AGANGTGCAG	360
	CATGTAAACC AAATTAACAT ATGGTGTCCA ANGATAN	397